# Maintenance

## Excavated Ponds – Don'ts

- ◊ Trees and shrubs are not permitted over or within 4 feet of the principal spillway (barrel pipe)
  Reason: Tree roots may cause pipe misalignment
- ◊ Trees and shrubs are not permitted within the emergency spillway
  Reason: Dense growth can obstruct flows and cause the water level to overtop the dam
- ◊ Trees and shrubs are not permitted within a 25 foot radius around the inlet structure
  Reason: Roots can shift or crack the inlet structure

## Excavated ponds – Do's

- ◊ Mow the ground over or within 4 feet of the principal spillway (barrel pipe)
  Reason: This will prevent roots from penetrating the core trench around the pipe
- ◊ Clear the barrel outfall (rip rap apron) of dense vegetation
  Reason: Removing obstructions will help prevent excessive sediment accumulation within the pipe
- ◊ Clear the storm drain outfalls of dense vegetation
  Reason: Removing obstructions will help prevent excessive sediment accumulation within the storm drain

## Embankment Ponds – Don't's

- ◊ Trees and shrubs are not permitted on the top, upstream or downstream dam slopes
  Reason: Tree roots may cause pathways through the clay core of the dam; they may also fall and remove a portion of the embankment
- ◊ Trees and shrubs are not permitted within the emergency spillway
  Reason: Dense growth can obstruct flows and cause the water level to overtop the dam
- ◊ Trees and shrubs are not permitted within a 25 foot radius around the inlet structure or within 15 feet of the toe
  Reason: Roots can shift or crack the inlet structure

## Embankment Ponds – Do's

- ◊ Mow the top, upstream and downstream dam slopes when the grass exceeds 12" in height
  Reason: This will prevent the grass from falling over and killing new growth
- ◊ Clear the barrel outfall (rip rap apron) of dense vegetation
  Reason: Removing obstructions will help prevent excessive sediment accumulation within the pipe
- ◊ Clear the storm drain outfalls of dense vegetation
  Reason: Removing obstructions will help prevent excessive sediment accumulation within the storm drain

## Miscellaneous Maintenance For All Ponds

- ◊ Corrosion on metal trash racks and risers
  Remove corrosion and coat with bituminous material
- ◊ Overgrown or clogged dewatering stone
  Remove excess vegetation from stone. If necessary, rake the stone to dislodge sediments.

◊ Seepage through riser walls
If seepage is occurring through exposed aggregates, then pressure grouting may be needed. Parget over the surface with a non-shrink grout to cover exposed rebar or small seeps.

◊ Sloughing, slumping or sliding of slopes
May result because of poor stabilization. Apply seed and mulch or curlex to regarded areas. Repair may need a geotechnical assistant.

◊ Depressions
If the depression occurs over the barrel pipe, it may indicate soil loss through a joint or from pipe deterioration. Contact the County for further instructions.

◊ Animal Burrows
Mudpack the burrow with a slurry mix consisting of 90% and 10% cement.

**Maintenance for Wet Retention Ponds**

◊ Remove tall vegetation growing along the water's edge on the upstream dam slope
Reason: This will discourage muskrats from burrowing into the dam; minimizes animal burrowing

**Ponds with Forebays**

◊ Remove sediment from the forebay when 50% of its capacity has been lost
◊ Remove sediment if it is higher than the invert of the storm drain

**Sand Filters**

◊ If the facility does not drain and wetland plants are evident, then the facility has failed. Remove top layer of sand/mulch/soil; filter cloth may need to be replaced.
◊ If the facility does not drain in 72 hours then the filter cloth may be clogged. The cloth will need to be replaced.

## Stormwater Management Team

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